# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material name** CH166A

**Use of the preparation** Inkjet printing.

**Version #** 01

**Revision date** 03-18-2009

**CAS #** Mixture

**Synonym(s)** ColorSpan 0900700-114

**Company identification**

Hewlett-Packard Company
3000 Hanover Street
Palo Alto, CA 94304-1185
United States
Telephone 650-857-1501

Hewlett-Packard health effects line
(Toll-free within the US) 1-800-457-4209
(Direct) 1-503-494-7199
HP Customer Care Line
(Toll-free within the US) 1-800-474-6836
(Direct) 1-208-323-2551
Email: hpcustomerinquiries@hp.com

**Date prepared** Mar 17, 2009

**MSDS number** 374299

## 2. Hazards Identification

**Emergency overview** Contact with skin and eyes may result in irritation.

**Acute health effects**

**Skin contact** Contact with skin may result in irritation. Avoid contact with the skin.

**Eye contact** Contact with eyes may result in irritation. Avoid contact with eyes.

**Ingestion** Acute ingestion may result in mild gastrointestinal distress. May be harmful if swallowed.

**Potential health effects**

**Routes of exposure** Potential routes of exposure to this product are skin and eye contact, ingestion, and inhalation.

## 3. Composition / Information on Ingredients

| Component/substance | CAS number | % by weight |
|---|---|---|
| 2-Pyrrolidone | 616-45-5 | <15 |
| Glycerol Ethoxylate | 31694-55-0 | <5 |
| 1,2-Hexanediol | 6920-22-5 | <3 |
| Diethanolamine | 111-42-2 | <2 |
| Glycerol | 56-81-5 | <2 |
| Isopropanol | 67-63-0 | <2 |
| Dyes | Proprietary | 1-5 |
| Minor Ingredients | | <1 |
| Water | 7732-18-5 | Balance |

## 4. First Aid Measures

**First aid procedures**

**Eye contact** In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation develops or persists.

| | |
|---|---|
| **Skin contact** | In case of contact, immediately remove contaminated clothing and flush skin with copious amounts of water.<br>Wash clothing separately before reuse. |
| **Inhalation** | In case of accident by inhalation: remove casualty to fresh air and keep at rest. If symptoms persist, get medical attention. |
| **Ingestion** | Rinse mouth out with water. Give several glasses of water. If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. If symptoms persist, get medical attention. |

## 5. Fire Fighting Measures

| | |
|---|---|
| **Flash point and method** | Not flammable |
| **Hazardous combustion products** | Decomposition of this product may yield oxides of sulfur and nitrogen. |
| **Flammable properties** | The product is not flammable. |
| **Extinguishing media** | |
| **Suitable extinguishing media** | Use any media suitable for the surrounding fires. |
| **Unusual fire and explosion hazard** | The product is not flammable. |
| **Protection of firefighters** | |
| **Protective equipment and precautions for firefighters** | Wear suitable protective equipment. |

## 6. Accidental Release Measures

| | |
|---|---|
| **Personal precautions** | Avoid contact with skin. Do not touch or walk through spilled material.<br>Use personal protective equipment to minimize exposure to skin and eye. |
| **Environmental precautions** | Do not flush into surface water or sanitary sewer system. |
| **Methods for cleaning up** | Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Clean up in accordance with all applicable regulations.<br>Clean-up methods - small spillage; Flush area with flooding quantities of water. |

## 7. Handling and Storage

| | |
|---|---|
| **Handling** | Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists of this product. Use personal protective equipment as required. Use only with adequate ventilation. When using, do not eat, drink or smoke. |
| **Storage** | Keep out of the reach of children. Keep tightly closed in a dry, cool and well-ventilated place. Store at room temperature. Do not handle or store near an open flame, heat or other sources of ignition. |

## 8. Exposure Controls / Personal Protection

**Occupational exposure limits**

**ACGIH**

| Components | Type | Value | Form |
|---|---|---|---|
| Diethanolamine (111-42-2) | TWA | 2 mg/m3 | |
| Glycerol (56-81-5) | TWA | 10 mg/m3 | Mist. |
| Isopropanol (67-63-0) | STEL | 400 ppm | |
| | TWA | 200 ppm | |

**U.S. - OSHA**

| Components | Type | Value | Form |
|---|---|---|---|
| Diethanolamine (111-42-2) | TWA | 3 ppm<br>15 mg/m3 | |
| Glycerol (56-81-5) | PEL | 15 mg/m3<br>5 mg/m3 | Total dust.<br>Respirable fraction. |

| Components | Type | Value | Form |
|---|---|---|---|
| | TWA | 10 mg/m3<br>5 mg/m3 | Total dust.<br>Respirable fraction. |
| Isopropanol (67-63-0) | PEL | 980 mg/m3<br>400 ppm | |
| | STEL | 500 ppm<br>1225 mg/m3 | |
| | TWA | 400 ppm<br>980 mg/m3 | |

**Personal protective equipment**

| | |
|---|---|
| **Eye / face protection** | Wear safety glasses; chemical goggles (if splashing is possible). Eye wash fountain and emergency showers are recommended. |
| **Skin protection** | Wear appropriate chemical resistant clothing.<br>Wear appropriate chemical resistant gloves. |
| **Respiratory protection** | Under normal conditions, respirator is not normally required.<br>Provide adequate ventilation. |
| **General hygeine considerations** | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing.<br>When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.<br>Launder contaminated clothing before reuse. |

## 9. Physical & Chemical Properties

| | |
|---|---|
| **Color** | Medium/Light Black |
| **Odor** | slight solvent |
| **Odor threshold** | Not available. |
| **Physical state** | Liquid. |
| **Form** | Aqueous solution. |
| **pH** | 7 - 9 |
| **Melting point** | < 32 °F (< 0 °C) |
| **Freezing point** | Not available. |
| **Boiling point** | 212 °F (100 °C) |
| **Flash point** | Not flammable |
| **Evaporation rate** | Not available. |
| **Flammability** | Not available. |
| **Flammability limits in air, upper, % by volume** | Not available. |
| **Flammability limits in air, lower, % by volume** | Not available. |
| **Vapor pressure** | Not available. |
| **Vapor density** | Not available. |
| **Specific gravity** | Not available. |
| **Relative density** | 1.04 g/cm³ |
| **Solubility (water)** | Soluble |
| **Partition coefficient (n-octanol/water)** | Not available. |
| **Auto-ignition temperature** | Not available. |
| **Decomposition temperature** | Not available. |
| **VOC** | 167.4 g/L |

## 10. Chemical Stability & Reactivity Information

| | |
|---|---|
| **Chemical stability** | Stable under normal storage conditions. |
| **Conditions to avoid** | Avoid high temperatures. |
| **Incompatible materials** | Strong oxidizing agents. |
| **Possibility of hazardous reactions** | None known. |

## 11. Toxicological Information

### Sensitization

**US ACGIH Threshold Limit Values: Skin designation**

| | |
|---|---|
| Diethanolamine (111-42-2) | Can be absorbed through the skin. |

### Carcinogenicity

**IARC Monographs on Occupational Exposures to Chemical Agents: Evidence of carcinogenicity in humans**

| | |
|---|---|
| Diethanolamine (111-42-2) | Inadequate data. |
| Isopropanol (67-63-0) | Inadequate data. |

**US ACGIH Threshold Limit Values: A4 carcinogen**

| | |
|---|---|
| Isopropanol (67-63-0) | Group A4 Not classifiable as a human carcinogen. |

### Symptoms and target organs

**Target Organs (NIOSH)**

| | |
|---|---|
| Diethanolamine (111-42-2) | Eyes |
| Diethanolamine (111-42-2) | Respiratory system |
| Diethanolamine (111-42-2) | Skin |
| Glycerol (56-81-5) | Eyes |
| Glycerol (56-81-5) | Kidneys |
| Glycerol (56-81-5) | Respiratory system |
| Glycerol (56-81-5) | Skin |
| Isopropanol (67-63-0) | Eyes |
| Isopropanol (67-63-0) | Respiratory system |
| Isopropanol (67-63-0) | Skin |

## 12. Ecological Information

| | |
|---|---|
| **Ecotoxicity** | Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants. |
| **Persistence and degradability** | Not available. |

## 13. Disposal Considerations

| | |
|---|---|
| **Disposal instructions** | Dispose of in compliance with federal, state, and local regulations. Do not allow this material to drain into sewers/water supplies. |

## 14. Transport Information

### IATA

Not regulated as dangerous goods.

| | |
|---|---|
| **General** | Not a regulated article under United States DOT, IATA, ADR, IMDG, or RID. |

## 15. Regulatory Information

| | |
|---|---|
| **US federal regulations** | US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders under TSCA. |

**US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration**

| | |
|---|---|
| Diethanolamine (111-42-2) | 1.0 % |
| Isopropanol (67-63-0) | 1.0 % |

**CERCLA (Superfund) reportable quantity**

None

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

| | |
|---|---|
| **Hazard categories** | Immediate Hazard - No<br>Delayed Hazard - No<br>Fire Hazard - No<br>Pressure Hazard - No<br>Reactivity Hazard - No |
| **Section 302 extremely hazardous substance** | No |
| **Section 311 hazardous chemical** | No |

**State regulations**

**US - New Jersey Community RTK (EHS Survey): Listed substance**

| | |
|---|---|
| Diethanolamine (111-42-2) | Substance no. 0686 |
| Isopropanol (67-63-0) | Substance no. 1076 |

**US - New Jersey Community RTK (EHS Survey): Reportable threshold**

| | |
|---|---|
| Diethanolamine (111-42-2) | 500 LBS |
| Isopropanol (67-63-0) | 500 LBS |

**US - Pennsylvania RTK - Hazardous Substances: Listed substance**

| | |
|---|---|
| 2-Pyrrolidone (616-45-5) | Listed. |
| Diethanolamine (111-42-2) | Listed. |
| Glycerol (56-81-5) | Listed. |
| Isopropanol (67-63-0) | Listed. |

## 16. Other Information

| | |
|---|---|
| **HMIS® ratings** | Health: 1<br>Flammability: 0<br>Physical hazard: 0<br>Personal protection: B |
| **NFPA ratings** | Health: 1<br>Flammability: 0<br>Instability: 0 |
| **Issue date** | Mar 17 2009 9:56PM |
| **Revision** | 1 |
| **Disclaimer** | This Safety Data Sheet document is provided without charge to customers of Hewlett-Packard Company. Data is the most current known to Hewlett-Packard Company at the time of preparation of this document and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or suitability for a particular application. This document was prepared to the requirements of the jurisdiction specified in Section 1 above and may not meet regulatory requirements in other countries. |

**Explanation of abbreviations**

| | |
|---|---|
| **ACGIH** | American Conference of Governmental Industrial Hygienists |
| **CAS** | Chemical Abstracts Service |
| **CERCLA** | Comprehensive Environmental Response Compensation and Liability Act |
| **CFR** | Code of Federal Regulations |
| **COC** | Cleveland Open Cup |
| **DOT** | Department of Transportation |
| **EPCRA** | Emergency Planning and Community Right-to-Know Act (aka SARA) |
| **IARC** | International Agency for Research on Cancer |
| **NIOSH** | National Institute for Occupational Safety and Health |
| **NTP** | National Toxicology Program |
| **OSHA** | Occupational Safety and Health Administration |
| **PEL** | Permissible Exposure Limit |
| **RCRA** | Resource Conservation and Recovery Act |
| **REC** | Recommended |
| **REL** | Recommended Exposure Limit |
| **SARA** | Superfund Amendments and Reauthorization Act of 1986 |
| **STEL** | Short-Term Exposure Limit |
| **TCLP** | Toxicity Characteristics Leaching Procedure |
| **TLV** | Threshold Limit Value |
| **TSCA** | Toxic Substances Control Act |
| **VOC** | Volatile Organic Compounds |
| **Manufacturer information** | Hewlett-Packard<br>11311 K-Tel Drive<br>Minnetonka, MN 55343 US<br>Product Information 1-800-925-0563 |